

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:

**May  
2005**

**Arnold Schwarzenegger**  
Governor  
**State of California**

**Mike Chrisman**  
Secretary for Resources  
**The Resources Agency**

**Lester A. Snow**  
Director  
**Department of Water Resource**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://wwwoco.water.ca.gov>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Rewvisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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For details, please contact:

State of California  
Department of Water Resources  
P.O. Box 942836  
Sacramento, CA 94236-0001

Or call the DWR Publications Desk at (916) 653-1097

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**LESTER A. SNOW, Director**

LESLIE HARDER JR  
Deputy Director

RALPH TORRES  
Deputy Director

GERALD JOHNS  
Deputy Director

TIMOTHY HAINES  
Deputy Director

REUBEN JIMENEZ  
Deputy Director

MARK COWIN  
Deputy Director

#### DIVISION OF OPERATIONS AND MAINTENANCE

Carl Torgersen.....Chief, Division of Operations and Maintenance

This report was prepared under the direction of

Coe Hall ..... Office Chief, Utility Administration Reporting & Systems Office  
Chris Mattos ..... Branch Chief, Contract Administration & Reporting Branch

By the Reporting Section

Guy Masier ..... Section Chief  
Michael Nolasco ..... Water Resources Engineering Associate (Specialist)  
Mary Serrato ..... Water Resources Engineering Associate (Specialist)  
David W. Brown ..... Water Resources Engineering Associate (Specialist)

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The organization shown above represents staff and positions relevant to this report as of the publication date.  
It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of May 2005.

Statewide precipitation from October 1 through May 31, 2005, was about 150 percent of average compared to 90 percent at this time in 2004.

Statewide runoff so far this year has been about 95 percent of average compared to 85 percent at this time in 2004. Runoff during May was average for the month. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)".

End of May total storage in major SWP reservoirs was about 4.97 MAF, compared with about 4.35 MAF at this time in 2004. The average monthly total storage for the year in the major SWP reservoirs at the end of May was about 4.17 MAF. End of month storage at Lake Oroville was 3.495 MAF, compared to 3.04 MAF in 2004. The State's share of San Luis Reservoir storage was about 799 TAF, as compared with 674 TAF at this time in 2004. The end of month combined storage in major southern reservoirs (Pyramid, Castaic, Silverwood, and Perris) was about 679 TAF, compared to 640 TAF at this time in 2004.

Through May, SWP water deliveries for 2005 were about 1.68 MAF. This is a combination of project, transfer, and exchange waters. This was about 152 TAF less than that delivered during the same period in 2004.

On May 2, Del Valle releases to the South Bay Aqueduct were increased from 45 mean cfs to 100 cfs.

On May 4, Oroville Intake Structure had 1 shutter added to each of the intakes. Each intake now has 9 shutters installed in each of them.

On May 5, Banks Plant flow schedule was curtailed from 3390 cfs to zero cfs to allow time for more dialogue on the completion of an application project.

An Earthquake Alert was activated by a quake of 4.2 magnitude, located 35 degrees, 2.2 minutes north and 119 degrees, 10.2 minutes west. The epicenter was located 13 miles west of Chrisman Pumping Plant. SJFD notified that Check 29 thru 38 and Buena Vista, Teerink and Chrisman Pumping Plants needed inspection due to earthquake. An earthquake inspection was completed at SJFD and no problems were reported.

On May 18, Badger Hill Plant was forced out of service due to PG&E replacing a pole on the Arco-Tulare 70kv line.

On May 19, Oso and Alamo Plants were forced out of service due to the Bailey-Alamo-Oso 66kv line tripped.

On May 24, Lake Silverwood water surface elevation was restricted to maximum of 3350.00 feet, through June 5, 2005, to remove debris from shoreline.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**May 2005**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Apr 30	5002.49	23,022									
1	5002.67	23,191	169	5	0	0	72	5	82	167	
2	5002.73	23,248	57	5	0	0	83	5	93	122	
3	5002.79	23,305	57	5	0	0	94	5	104	133	
4	5002.85	23,361	56	5	0	0	106	5	116	144	
5	5002.92	23,428	67	5	0	0	121	5	131	165	
6	5002.94	23,447	19	5	0	0	125	5	135	145	
7	5002.94	23,447	0	5	0	0	125	5	135	135	
8	5002.95	23,456	9	5	0	0	127	5	137	142	
9	5003.00	23,504	48	5	0	0	138	5	148	172	
10	5002.97	23,475	-29	5	0	0	131	5	141	126	
11	5002.90	23,409	-66	5	0	0	116	5	126	93	
12	5002.88	23,390	-19	5	0	0	112	5	122	112	
13	5002.86	23,371	-19	5	0	0	108	5	118	108	
14	5002.89	23,399	28	5	0	0	114	5	124	138	
15	5002.98	23,485	86	5	0	0	133	5	143	186	
16	5003.19	23,685	200	5	0	0	187	5	197	299	
17	est5003.26	23,752	67	5	0	0	210	5	220	254	
18	5003.33	23,819	67	5	0	0	234	5	244	278	
19	5003.67	24,146	327	5	0	0	370	5	380	545	
20	5003.50	23,982	-164	5	0	0	298	5	308	225	
21	5003.33	23,819	-163	5	0	0	234	5	244	162	
22	5003.18	23,675	-144	5	0	0	184	5	194	121	
23	5003.08	23,580	-95	5	0	0	156	5	166	118	
24	5002.98	23,485	-95	5	0	0	133	5	143	95	
25	5002.90	23,409	-76	5	0	0	116	5	126	88	
26	5002.84	23,352	-57	5	0	0	104	5	114	85	
27	5002.79	23,305	-47	5	0	0	94	5	104	80	
28	5002.72	23,238	-67	5	0	0	81	5	91	57	
29	5002.68	23,201	-37	5	0	0	74	5	84	65	
30	5002.64	23,163	-38	5	0	0	67	5	77	58	
31	5002.60	23,125	-38	5	0	0	61	4	70	51	
Total cfs-days				---	155	0	0	4,308	154	4,617	
Total ac-ft				103	307	0	0	8,545	305	9,157	
										4,669	
										9,260	

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**May 2005**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right				
Apr 30	5569.76	31,115								
1	5569.86	31,214	99	2	0	0	0	6	8	
2	5570.00	31,369	155	2	0	0	0	6	8	
3	5570.13	31,512	143	2	0	0	0	6	8	
4	5570.28	31,679	167	2	0	0	0	6	8	
5	5570.46	31,880	201	2	0	0	0	6	8	
6	5570.50	31,924	44	2	0	0	0	6	8	
7	5570.56	31,991	67	2	0	0	0	6	8	
8	5570.72	32,171	180	2	0	0	0	6	8	
9	5570.88	32,351	180	2	0	0	0	6	8	
10	5571.01	32,497	146	2	0	0	0	6	8	
11	5571.10	32,599	102	2	0	0	0	6	8	
12	5571.09	32,588	-11	2	0	0	0	6	8	
13	5571.21	32,724	136	2	0	0	0	6	8	
14	5571.35	32,883	159	2	0	0	0	6	8	
15	5571.40	32,940	57	2	0	0	0	6	8	
16	5571.67	33,249	309	1	3	0	0	6	10	
17	5571.70	33,284	35	1	5	0	0	6	12	
18	5571.86	33,468	184	1	5	0	0	6	12	
19	5571.91	33,526	58	1	5	0	0	6	12	
20	5572.01	33,641	115	1	5	0	0	6	12	
21	5572.06	33,699	58	1	5	0	0	6	12	
22	5572.08	33,722	23	1	5	0	0	6	12	
23	5572.15	33,803	81	1	26	0	0	6	33	
24	5572.18	33,838	35	0	38	0	0	6	44	
25	5572.10	33,745	-93	0	50	0	0	6	56	
26	5572.11	33,757	12	0	65	0	0	6	71	
27	5572.07	33,711	-46	0	72	0	0	6	78	
28	5571.97	33,595	-116	0	74	0	0	6	80	
29	5571.85	33,456	-139	0	74	0	0	6	80	
30	5571.81	33,399	-57	0	74	0	0	7	81	
31	5571.68	33,261	-138	0	81	0	0	7	18	
Total cfs-days				---	38	587	0	0	188	
Total ac-ft				2,146	75	1,164	0	0	372	
									1,612	
									3,758	

1/ Last Chance Creek Water District

**Table 3. Lake Davis**

Daily Operation  
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**May 2005**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right 1/				
Apr 30	5766.76	54,726								
1	5766.83	54,915	189	10	0	0	0	17	27	
2	5766.88	55,075	160	10	0	0	0	17	27	
3	5766.94	55,266	191	9	0	1	0	17	27	
4	5766.99	55,426	160	10	0	0	0	17	27	
5	5767.05	55,617	191	10	0	0	0	17	27	
6	5767.11	55,810	193	10	0	0	0	17	27	
7	5767.15	55,938	128	10	0	0	0	17	27	
8	5767.22	56,163	225	10	0	0	0	17	27	
9	5767.35	56,582	419	10	0	0	0	17	27	
10	5767.46	56,938	356	10	0	0	0	17	27	
11	5767.52	57,133	195	10	0	0	0	17	27	
12	5767.53	57,165	32	10	0	0	0	17	27	
13	5767.56	57,231	66	10	0	0	0	17	27	
14	5767.61	57,426	195	10	0	0	0	17	27	
15	5767.65	57,557	131	10	0	0	0	17	27	
16	5767.76	57,916	359	10	0	0	0	17	27	
17	5767.81	58,048	132	9	0	1	0	17	27	
18	5767.99	58,673	625	10	0	0	0	17	27	
19	5768.08	58,970	297	10	0	0	0	18	28	
20	5768.15	59,202	232	10	0	0	0	18	28	
21	5768.19	59,302	100	10	0	0	0	18	28	
22	5768.22	59,435	133	10	0	0	0	18	28	
23	5768.25	59,535	100	10	0	0	0	18	28	
24	5768.27	59,601	66	10	0	0	0	18	28	
25	5768.27	59,601	0	10	0	0	0	18	28	
26	5768.28	59,635	34	10	0	0	0	18	28	
27	5768.31	59,735	100	10	0	0	0	18	28	
28	5768.30	59,701	-34	10	0	0	0	18	28	
29	5768.32	59,768	67	10	0	0	0	18	28	
30	5768.31	59,735	-33	10	0	0	0	18	28	
31	5768.31	59,735	0	9	0	1	0	18	28	
Total cfs-days				---	307	0	3	0	540	
Total ac-ft				5,009	609	0	6	0	1,072	
									1,687	
									6,696	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli)

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

**May 2005**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow						Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Deliveries to Lime Saddle Marina	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Apr 30	852.49	2,841,886									
	1	2,854,891	13,005	1,582	7	0	193	0	1,782	0	14,787
	2	2,863,993	9,102	5,294	7	0	186	0	5,487	0	14,589
	3	2,870,934	6,941	7,029	16	0	216	0	7,261	0	14,202
	4	2,875,023	4,089	11,278	20	0	172	0	11,470	0	15,559
	5	2,884,716	9,693	8,537	20	0	37	0	8,594	0	18,287
	6	2,900,739	16,023	4,312	20	0	75	0	4,407	0	20,430
	7	2,915,309	14,570	4,157	20	0	113	0	4,290	0	18,860
	8	2,936,294	20,985	1,625	20	0	142	0	1,787	0	22,772
	9	2,966,017	29,723	9,462	20	0	61	0	9,543	0	39,266
	10	2,986,277	20,260	7,408	20	0	100	0	7,528	0	27,788
	11	3,006,352	20,075	5,836	20	0	270	0	6,126	0	26,201
	12	3,017,766	11,414	10,480	20	0	170	0	10,670	0	22,084
	13	3,033,882	16,116	5,296	20	0	187	0	5,503	0	21,619
	14	3,052,049	18,167	2,844	20	0	195	0	3,059	0	21,226
	15	3,074,007	21,958	865	20	0	211	0	1,096	0	23,054
	16	3,101,829	27,822	5,804	11	0	126	0	5,941	0	33,763
	17	3,120,572	18,743	8,548	6	0	110	0	8,664	0	27,407
	18	3,174,063	53,491	7,427	6	0	48	0	7,481	0	60,972
	19	3,265,206	91,143	13,882	6	0	24	0	13,912	0	105,055
	20	3,310,953	45,747	13,991	6	0	74	0	14,071	0	59,818
	21	3,343,475	32,522	9,104	6	0	274	0	9,384	0	41,906
	22	3,371,031	27,556	7,867	6	0	259	0	8,132	0	35,688
	23	3,390,463	19,432	12,769	16	0	235	0	13,020	0	32,452
	24	3,407,820	17,357	11,380	20	0	312	0	11,712	0	29,069
	25	3,422,924	15,104	11,624	20	0	279	0	11,923	0	27,027
	26	3,436,063	13,139	12,689	22	0	289	0	13,000	0	26,139
	27	3,447,997	11,934	12,499	24	0	366	0	12,889	0	24,823
	28	3,461,983	13,986	7,554	24	0	111	0	7,689	0	21,675
	29	3,481,319	19,336	1,482	24	0	317	0	1,823	0	21,159
	30	3,492,112	10,793	6,602	24	0	215	0	6,841	0	17,634
	31	3,495,401	3,289	12,680	24	1	232	0	12,937	0	16,226
Total		653,515	241,907	511	1	5,599	0	248,018	0	901,533	

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation  
(in acre-feet except as noted)

**May 2005**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County 4/	Thermalito Irrigation District	Releases To River 5/	Hyatt Powerplant Pumpback	
Apr 30	23,450										
	1	24,102	652	1,582	256	0	132	1	7	1,243	0
	2	23,665	-437	5,294	194	0	4,781	1	7	1,247	0
	3	23,789	124	7,029	473	0	6,244	1	7	1,249	0
	4	23,486	-303	11,278	461	0	10,697	1	7	1,255	0
	5	23,419	-67	8,537	511	0	7,796	1	7	1,255	0
	6	24,076	657	4,312	508	0	2,888	1	7	1,255	0
	7	24,017	-59	4,157	450	0	3,469	1	7	1,277	0
	8	24,182	165	1,625	513	0	920	1	7	1,259	0
	9	23,881	-301	9,462	388	0	8,686	1	7	1,249	0
	10	23,867	-14	7,408	506	0	6,756	1	7	1,249	0
	11	23,663	-204	5,836	507	0	5,114	1	7	1,337	0
	12	23,365	-298	10,480	509	0	9,984	1	7	1,357	0
	13	23,756	391	5,296	513	0	4,293	1	7	1,241	0
	14	24,470	714	2,844	513	0	1,368	1	7	1,243	0
	15	24,188	-282	865	513	0	582	1	7	1,299	0
	16	24,121	-67	5,804	513	0	4,891	1	7	1,307	0
	17	23,782	-339	8,548	513	0	8,012	1	6	1,285	0
	18	23,394	-388	7,427	514	0	7,168	1	6	1,291	0
	19	23,457	63	13,882	501	0	12,864	1	6	1,287	0
	20	23,893	436	13,991	506	0	12,634	1	6	1,295	0
	21	24,440	547	9,104	512	0	7,952	1	6	1,295	0
	22	23,858	-582	7,867	514	0	7,735	1	6	1,287	0
	23	23,861	3	12,769	514	0	11,934	1	6	1,289	0
	24	23,570	-291	11,380	514	0	10,828	1	6	1,267	0
	25	23,622	52	11,624	514	0	10,746	1	6	1,232	0
	26	23,693	71	12,689	212	0	11,436	1	6	1,232	0
	27	23,602	-91	12,499	148	0	11,290	2	6	1,236	0
	28	24,046	444	7,554	484	0	6,324	2	6	1,236	0
	29	23,860	-186	1,482	505	0	926	2	6	1,238	0
	30	24,229	369	6,602	510	0	5,728	2	6	1,241	0
	31	24,091	-138	12,680	512	0	11,592	2	6	1,243	0
Total		641	241,907	14,301	0	215,770	36	202	39,276	0	-283

1/ Sum of Thermalito Forebay and Diversion Pool.

4/ Includes 4 AF of entitlement water to Del Oro WD and 32 AF to Cal Water.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

5/ The sum of the flows from fish barrier dam and the fish hatchery.

3/ Includes Bypass flows at Thermalito.



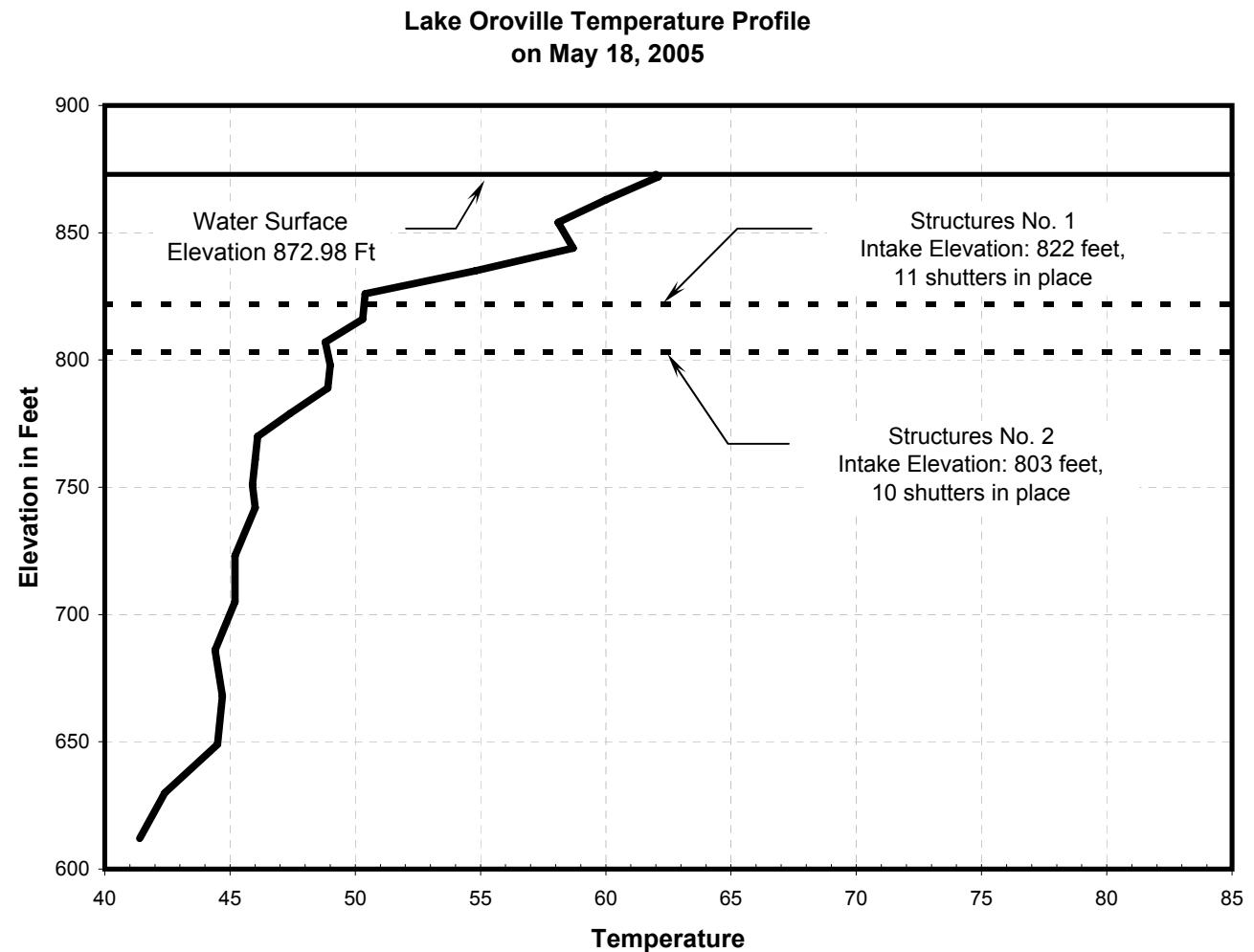
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

**May 2005**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	64	49
2	64	49
3	64	49
4	64	50
5	63	50
6	63	51
7	63	51
8	62	51
9	62	51
10	61	51
11	62	53
12	61	54
13	60	54
14	59	54
15	58	54
16	60	54
17	61	53
18	61	53
19	61	53
20	62	54
21	63	53
22	63	54
23	65	53
24	65	55
25	63	55
26	62	55
27	61	55
28	61	55
29	64	54
30	66	54
31	68	55



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**May 2005**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries			
	Beginning and Ending				Table A Amount		Article 21	
	No.	Structure	Mile		M & I	Benicia		
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	2,195			
		Travis Surge Tank	8.78					
			8.80	Solano County Water Agency Travis Turnout	343	108	235	
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	0			
				Solano County Water Agency Fairfield / Vacaville 42"	0			
			17.00	Solano County Water Agency Central Solano	Stub			
2		Cordelia Forebay	21.23					
		Cordelia Pumping Plant & Cordelia Spillway	21.30		1,764			
3A	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	205	1/ 4	201	
				Solano County Water Agency Benicia	1,188	218	970	
		Cordelia Surge Tank	23.33					
		Creston Surge Tank Connection	25.65					
			26.95	Napa County Flood Control & WCD American Canyon 2	0			
			27.27	Napa County Flood Control & WCD American Canyon 3	0			
		Napa Terminal Tank	27.58	City of Napa	195	195		
			27.60	Napa County Flood Control & WCD American Canyon 1	176	176		

1/ Napa Co. FC&WCD Entitlement through Solano Co.'s turnout for delivery to American Canyon.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**May 2005**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	58	46	1,092	1,092	389	0	0	52
2	57	47	1,092	1,092	326	0	0	132
3	69	48	1,165	1,165	303	0	0	149
4	62	48	0	0	357	0	0	85
5	62	53	4,216	4,216	412	0	0	27
6	59	48	3,037	3,037	381	0	0	32
7	58	49	3,060	3,060	394	0	0	35
8	58	44	2,827	2,827	368	0	0	23
9	57	48	2,875	2,875	368	0	0	25
10	61	48	2,945	2,945	371	0	0	29
11	56	46	2,873	2,873	396	0	0	30
12	65	49	5,000	5,000	334	0	0	27
13	60	49	2,470	2,470	338	0	0	30
14	60	45	2,932	2,932	338	0	0	32
15	59	48	3,348	3,348	325	0	0	20
16	66	50	2,855	2,855	272	0	0	22
17	67	57	2,798	2,798	260	0	0	27
18	75	59	2,812	2,812	256	0	0	30
19	66	55	2,666	2,666	267	0	0	27
20	73	62	2,657	2,657	265	0	0	35
21	65	51	2,648	2,648	297	0	0	30
22	83	63	2,531	2,531	277	0	0	30
23	88	73	2,618	2,618	316	0	0	36
24	94	77	2,618	2,618	338	0	0	29
25	87	70	2,595	2,595	428	0	0	4
26	90	72	3,266	3,266	476	0	0	0
27	91	77	10,935	10,935	454	0	0	0
28	87	71	10,397	10,397	430	0	0	0
29	92	76	10,386	10,386	422	0	0	0
30	81	63	10,365	10,365	401	0	0	0
31	89	72	10,363	10,363	423	0	0	0
Total	2,195	1,764	121,442	121,442	10,982	0	0	998

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**May 2005**

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	1:48	6:55	9:30	11:00					1,164
2	4:11	6:20	14:30	16:05					1,148
3	2:38	5:00							1,181
4									0
5	7:50	8:47	15:24	16:55					1,255
6	0:01	3:15	6:15	7:40					2,241
7	0:01	4:00							2,773
8	0:01	4:00							2,776
9	0:01	4:42							2,767
10	0:01	4:30							2,756
11	0:01	5:07							2,776
12	0:10	5:30							2,775
13	0:01	4:30							2,761
14	0:01	4:15							2,774
15	0:01	4:30							2,762
16	0:01	3:30							2,740
17	1:00	3:25	19:25	20:10					2,669
18	1:10	3:10							2,591
19	2:05	5:10							2,676
20	0:32	2:00	5:00	6:30					2,648
21	0:15	2:45	5:35	6:00					2,662
22	0:39	3:15	7:50	10:05					2,674
23	0:01	4:00	9:10	11:15					2,665
24	0:05	4:30	16:50	22:00					2,674
25	0:01	5:30							2,666
26	0:01	6:15							6,635
27	0:01	7:00	9:38	15:30					10,508
28	0:01	8:15	10:40	16:00					10,497
29	0:01	9:30	11:45	18:00					10,486
30	1:30	11:00	13:00	16:20					10,508
31	0:16	12:15							10,508
Total inflow for the month in AF:									117,716

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**May 2005**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A Amount	USBR	Local	Loan Water	Dry Year Purchase	
	No.	Structure	Mile							
1		Banks Pumping Plant	3.32		121,442					
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet	10,982	24	40			
		Check No. 1	5.95							
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	24					
		Check No. 2	12.01							
	3		12.47	Musco Olive	40					
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0					
		Check No. 4	23.99							
	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
2B	8		42.46	Oak Flat Water District-A	86	86	76	172	124	
			42.9	Western Hills WD	76					
			43.81	Oak Flat Water District-B	172					
			44.64	Oak Flat Water District-C	124					
		Check No. 8	45.97							
	9		46.18	Oak Flat Water District-D	154	154	0	0	0	
				Oak Flat Totals:	536					
	10	Check No. 9	51.3							
	11	Check No. 10	56.86							
	12	Check No. 11	61.4							
			66.14	Veteran's Cemetery	5		5			
		Check No. 12	66.71		106,401					

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**May 2005**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A Amount	Purchase Pool A	Purchase Pool B	Local	Recreation	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	10,982	2	970	814	12	234	
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	2						
		Check No. 1	3.91								
	2	Check No. 2	5.21								
			7.21	Zone 7 WA Altamont	0						
			Check No. 3	9.49	Zone 7 WA Patterson Inflow Exchange Project Water	0	970	814	12	234	
4	3	Check No. 4	10.68			14	814	44	12	12	
		Check No. 5	12.29								
			13.55	Zone 7 WA Wente #1	14						
			14.16	Zone 7 WA Wente #2	0						
			14.31	Zone 7 WA Ising	5						
		Check No. 6	14.65								
			14.78	Zone 7 WA Arroyo Mocho Project Water	814						
	8	Check No. 7	16.38			20	1,825	45	12	12	
			16.57	Zone 7 WA Wente #3	0						
			16.63	Zone 7 WA Wente #4	12						
			16.69	Zone 7 WA Norman Nursery	0						
			16.70	Zone 7 WA Concannon Project Water	20						
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0						
				(Flow into South Bay Aqueduct)	998						
				Zone 7 A Arroyo Valle #1 & #2 Project Water Storage Released Inflow Released	0	44	1,825	45	12	12	
		Deliveries through Del Valle Branch Pipeline		Lake Del Valle Recreation	234						
				Zone 7 WA Wente #5	44						
				Zone 7 WA So. Livermore Project Inflow Released Stored Exchanged	0						
5	6		19.20		1,825	44	1,825	45	12	12	
			19.21	Zone 7 WA Kalthrof Detjens	45						
			22.50	ACWD Vallecitos Project Water	0						
	7	La Costa Tunnel	25.97	City of San Francisco San Antonio	0	44	1,825	45	12	12	
			28.97	ACWD - Bayside 1 & 2 Inflow Released Storage Released Storage Exchange	288 476 1,067						
	8	Mission Tunnel	35.86	S.C.V.W.D. Meter	6,130	6,130				288 476 1,067	
9		Santa Clara Pipeline									

**Table 13. Lake Del Valle**

Daily Operation

Capacity: 77,106 ac-ft

**May 2005**

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Apr 30	704.48	40,970									
1	704.46	40,955	-15	43	0	0	52	0	6	58	0.00
2	704.31	40,848	-107	33	0	0	132	0	8	140	0.00
3	704.14	40,726	-122	37	0	0	149	0	10	159	0.00
4	704.09	40,690	-36	57	0	0	85	0	8	93	0.00
5	704.10	40,697	7	36	0	0	27	0	2	29	0.39
6	704.09	40,690	-7	29	0	0	32	0	4	36	0.00
7	704.09	40,690	0	42	0	0	35	0	7	42	0.00
8	704.10	40,697	7	37	0	0	23	0	7	30	0.12
9	704.14	40,726	29	56	0	0	25	0	2	27	0.27
10	704.16	40,740	14	51	0	0	29	0	8	37	0.05
11	704.15	40,733	-7	35	0	0	30	0	12	42	0.00
12	704.14	40,726	-7	26	0	0	27	0	6	33	0.00
13	704.11	40,704	-22	18	0	0	30	0	10	40	0.00
14	704.09	40,690	-14	27	0	0	32	0	9	41	0.00
15	704.09	40,690	0	29	0	0	20	0	9	29	0.00
16	704.09	40,690	0	31	0	0	22	0	9	31	0.07
17	704.07	40,676	-14	21	0	0	27	0	8	35	0.00
18	704.05	40,661	-15	20	0	0	30	0	5	35	0.00
19	704.05	40,661	0	33	0	0	27	0	6	33	0.18
20	704.03	40,647	-14	26	0	0	35	1	4	40	0.00
21	704.01	40,633	-14	26	0	0	30	1	9	40	0.00
22	703.97	40,604	-29	14	0	0	30	1	12	43	0.00
23	703.93	40,576	-28	21	0	0	36	1	12	49	0.00
24	703.92	40,568	-8	34	0	0	29	1	12	42	0.00
25	703.90	40,554	-14	3	0	0	4	1	12	17	0.00
26	703.89	40,547	-7	6	0	0	0	1	12	13	0.00
27	703.90	40,554	7	20	0	0	0	1	12	13	0.00
28	703.87	40,533	-21	-8	0	0	0	1	12	13	0.00
29	703.87	40,533	0	8	0	0	0	1	7	8	0.00
30	703.85	40,518	-15	-5	0	0	0	1	9	10	0.00
31	703.84	40,511	-7	5	0	0	0	1	11	12	0.00
Total		-459		811	0	0	998	12	260	1,270	1.08

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records



**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

May 2005

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Apr 30	532.70	1,898,434						
1	532.10	1,890,988	-7,446	0	4,018	27	0	291
2	531.40	1,882,313	-8,675	0	4,251	21	0	-102
3	530.90	1,876,126	-6,187	0	2,707	32	0	-380
4	530.90	1,876,126	0	0	0	21	0	21
5	530.70	1,873,653	-2,473	0	1,286	8	0	47
6	530.10	1,866,240	-7,413	0	3,909	12	0	184
7	530.10	1,866,240	0	171	0	19	0	-152
8	530.07	1,865,870	-370	0	0	8	0	-179
9	529.90	1,863,772	-2,098	76	1,445	3	0	314
10	529.60	1,860,071	-3,701	0	1,621	6	0	-239
11	529.40	1,857,606	-2,465	31	1,447	16	0	189
12	529.10	1,853,909	-3,697	123	1,768	26	0	-193
13	528.60	1,847,754	-6,155	0	2,832	79	0	-192
14	528.40	1,845,294	-2,460	0	1,373	113	0	246
15	527.90	1,839,149	-6,145	0	2,471	106	0	-521
16	527.30	1,831,785	-7,364	0	4,097	103	0	487
17	526.70	1,824,430	-7,355	0	3,086	131	0	-491
18	526.10	1,817,086	-7,344	0	3,836	137	0	270
19	525.40	1,808,531	-8,555	0	4,374	153	0	214
20	524.20	1,793,897	-14,634	0	6,910	161	0	-307
21	523.40	1,784,164	-9,733	0	5,241	170	0	504
22	522.50	1,773,237	-10,927	0	4,996	152	0	-361
23	521.70	1,763,543	-9,694	0	5,317	162	0	592
24	521.20	1,757,494	-6,049	0	2,682	158	0	-210
25	520.30	1,746,623	-10,871	0	5,093	158	0	-230
26	519.10	1,732,165	-14,458	0	7,475	159	0	345
27	518.40	1,723,750	-8,415	0	3,816	165	0	-262
28	517.50	1,712,952	-10,798	940	6,523	160	0	299
29	517.40	1,711,754	-1,198	0	412	124	0	-68
30	516.90	1,705,766	-5,988	0	2,651	146	0	-222
31	516.10	1,696,202	-9,564	0	4,577	219	1	-25
Total			-202,232	1,341	100,214	2,955	1	-131
Mean cfs			---	43	3,233	95	0	-4
Acre-feet			-202,232	2,659	198,773	5,866	1	-251

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 4162 AF, San Benito: 1704 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**May 2005**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant			San Felipe Project	
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	8,546	6,056	7,970	7,970	0	0	54
2	8,141	5,577	8,432	6,264	0	0	41
3	9,319	6,753	5,369	2,555	0	0	64
4	8,763	6,241	0	0	0	0	41
5	9,686	7,171	2,550	2,550	0	0	16
6	6,791	4,261	7,753	7,753	0	0	24
7	5,856	3,281	0	0	339	339	37
8	6,999	4,534	0	0	0	0	16
9	6,099	3,544	2,866	2,866	151	151	6
10	6,721	4,159	3,215	425	0	0	12
11	6,777	4,205	2,871	2,871	62	62	0
12	9,785	7,235	3,507	637	243	243	84
13	7,222	4,664	5,618	2,679	0	0	156
14	8,430	5,923	2,724	2,724	0	0	225
15	9,326	6,864	4,901	4,901	0	0	211
16	9,028	6,383	8,126	5,158	0	0	205
17	9,596	7,023	6,122	3,536	0	0	260
18	10,208	7,707	7,608	4,586	0	0	271
19	11,168	8,660	8,675	2,902	0	0	304
20	12,884	10,395	13,706	10,847	0	0	320
21	12,013	9,534	10,395	7,421	0	0	337
22	11,820	9,368	9,909	9,909	0	0	302
23	10,673	8,094	10,547	7,581	0	0	322
24	11,414	8,883	5,319	2,344	0	0	314
25	14,971	12,503	10,101	7,144	0	0	313
26	17,024	14,501	14,826	11,890	0	0	316
27	17,053	13,377	7,570	4,813	0	0	328
28	16,031	12,361	12,938	7,331	1,864	1,864	317
29	15,158	11,395	818	818	0	0	245
30	14,588	10,830	5,258	-329	0	0	290
31	13,857	10,141	9,079	6,249	0	0	435
Total	325,947	241,623	198,773	136,395	2,659	2,659	5,866

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

**May 2005**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	330.97	22,093					
1	331	22098	5	3	0	0	-1
2	331	22108	10	5	0	0	0
3	331	22108	0	0	0	0	0
4	331	22117	9	5	0	0	-1
5	331	22147	30	15	0	0	0
6	331	22152	5	3	0	0	-1
7	331	22157	5	3	0	0	-1
8	331	22161	4	2	0	0	0
9	331	22157	-4	0	0	0	-4
10	331	22161	4	2	0	0	0
11	331	21952	-209	3	0	108	-1
12	330	21560	-392	3	0	200	-1
13	329	21368	-192	3	0	100	0
14	329	21368	0	0	0	0	0
15	329	21373	5	3	0	0	-1
16	329	21358	-15	0	0	0	-15
17	329	21358	0	0	0	0	0
18	329	21358	0	0	0	0	0
19	329	21353	-5	0	0	0	-5
20	329	21344	-9	0	0	0	-9
21	329	21339	-5	0	0	0	-5
22	329	21334	-5	0	0	0	-5
23	329	21329	-5	0	0	0	-5
24	329	21329	0	0	0	0	0
25	329	21325	-4	0	0	0	-4
26	329	21315	-10	0	0	0	-10
27	329	21306	-9	0	0	0	-9
28	329	21282	-24	0	0	0	-24
29	329	21277	-5	0	0	0	-5
30	329	21272	-5	0	0	0	-5
31	329	21272	0	0	0	0	0
<b>Total</b>			<b>-821</b>	<b>50</b>	<b>0</b>	<b>408</b>	<b>-111</b>
<b>Mean cfs</b>			<b>---</b>	<b>2</b>	<b>0</b>	<b>13</b>	<b>---</b>
<b>Acre-feet</b>			<b>-821</b>	<b>99</b>	<b>0</b>	<b>809</b>	<b>-111</b>

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

**May 2005**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Apr 30	602.60	826					
1	602.60	826	0	1	0	1	0
2	602.60	826	0	1	0	1	0
3	602.60	826	0	1	0	1	0
4	602.60	826	0	1	0	1	0
5	602.60	826	0	1	0	1	0
6	602.60	826	0	1	0	1	0
7	602.60	826	0	1	0	1	0
8	602.60	826	0	1	0	1	0
9	602.60	826	0	1	0	1	0
10	602.60	826	0	1	0	1	0
11	602.60	826	0	1	0	1	0
12	602.60	826	0	1	0	1	0
13	602.58	825	-1	0	0	1	1
14	Not Observed			1	0	1	
15	602.60	826	1	2	0	1	-1
16	Not Observed			1	0	1	
17	602.55	823	-3	0	0	1	-1
18	602.55	823	0	1	0	1	0
19	602.55	823	0	1	0	1	0
20	602.55	823	0	1	0	1	0
21	602.55	823	0	1	0	1	0
22	602.55	823	0	1	0	1	0
23	602.55	823	0	1	0	1	0
24	602.55	823	0	1	0	1	0
25	602.55	823	0	1	0	1	0
26	602.55	823	0	1	0	1	0
27	602.50	821	-2	0	0	1	0
28	602.50	821	0	1	0	1	0
29	602.50	821	0	1	0	1	0
30	602.45	818	-3	0	0	0	-3
31	602.45	818	0	0	0	0	0
Total			-8	27	0	29	-4
Mean cfs			---	1	0	1	---
Acre-feet			-8	53	0	57	-4

1/ Not available on a daily basis

























**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**May 2005**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A Amount	Rec.	Local	Transfer	Flexible Payback	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		34,222						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved						
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
		Warne Power Plant	14.07		37,018						
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	0						
			14.10	United Water Conservation Dist.	0						
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0						
		Castaic Power Plant	25.82	( 59,355 AF pumpback ) 2/	90,049						
29J	W4	Elderberry Forebay									
		Forebay Dam	28.12								
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	32	32					
		Castaic Dam	31.47								
		Castaic Lake Outlet	31.55	MWD - 78"	8,284						
				MWD - 132"	26,996						
				Castaic Lake WA - T1	2,446						
				Castaic Lake WA	506						
				United Water Conservation Dist.	0						
				MWD - Ventura County FCD	231						
				LA Co. Parks & Recreation	0						
				Releases to Lagoon	3,049						
				Reach 30 Subtotal:	38,495	38,463	32	0	0	0	
	W6	Castaic Lagoon		Recreation to Lagoon	0						
		Castaic Lagoon Outlet	31.87		2,984						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.



**Table 30. Lake Perris**

## Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**May 2005**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Apr 30	1587.36	125,377				
1	1587.39	125,446	69		287	
2	1587.41	125,470	24		285	
3	1587.39	125,446	-24		285	
4	1587.36	125,377	-69		125	
5	1587.36	125,377	0		10	
6	1587.45	125,583	206		10	
7	1587.42	125,514	-69		10	
8	1587.50	125,697	183		10	
9	1587.58	125,880	183		9	
10	1587.58	125,880	0		10	
11	1587.53	125,766	-114		9	
12	1587.58	125,880	114		9	
13	1587.47	125,629	-251		10	
14	1587.50	125,697	68		10	
15	1587.50	125,697	0		9	
16	1587.42	125,514	-183		10	
17	1587.50	125,697	183		9	
18	1587.53	125,766	69		10	
19	1587.39	125,446	-320		9	
20	1587.50	125,697	251		9	
21	1587.36	125,377	-320		10	
22	1587.36	125,377	0		9	
23	1587.36	125,377	0		10	
24	1587.36	125,377	0		9	
25	1587.36	125,377	0		8	
26	1587.34	125,332	-45		11	
27	1587.25	125,126	-206		9	
28	1587.36	125,377	251		9	
29	1587.25	125,126	-251		9	
30	1587.25	125,126	0		10	
31	1587.25	125,126	0		9	
<b>Total</b>			<b>-251</b>	<b>2,563</b>	<b>1,237</b>	<b>-1,577</b>

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.



**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**May 2005**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A Amount	Recreation	MWD Exchange	Transfer	Local	
	No.	Structure	Mile							
22B	58	Pearblossom Pumping Plant	360.61		75,613					
	59	Check No. 59	366.09							
	60		366.50	Antelope Valley-East Kern WA	0					
		Check No. 60	373.94							
	61	Check No. 61	379.00							
	62	Check No. 62	384.26							
	63		389.20	Mojave Water Agency Mojave River	552					
			394.60	Mojave Water Agency Temporary	0					
	64	Check No. 64	395.10							
	65	Check No. 65	400.32							
	66		401.10	Mojave Water Agency Morongo 24" and 42"	117					
				Mojave Water Agency Hesperia	0					
23		Check No. 66	403.41							
24	67	Mojave Siphon	405.48	Las Flores Ranch	1,394					
		Mojave Siphon Powerplant	405.65		75,146					
	67	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency	73					
				Calif. State Park Silverwood Agency (Rec.)	6					
25	San Bernardino Tunnel Intake	407.70			77,183					
26A	Devil Canyon Powerplant	412.73			77,183					
	68	Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto	21,730					
				Desert Water Agency (MWD Wheeling Exchange)	3,810					
				Coachella Valley WD (MWD Wheeling Exchange)	3,300					
				MWD - EBX	13,949					
				East Branch Extension	343					
28G	Santa Ana Valley Pipeline	425.46								
28H		433.06	MWD-SC Box Springs		9,249					
		440.05	MWD-SC Perris Bypass Pipeline		22,673					
28J	69	442.00	MWD-SC 18"		294					
		443.44	MWD-SC 54"		321					
			MWD-SC 78"		622					
			Calif. State Park							
			Lake Perris Recreation		0					
			MWD Total:	111,228	104,118	0	7,110	0	0	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Stream Flow.

2/ Includes 0 AF to San Gabriel Valley MWD, 297 AF to San Bernardino Valley MWD, and 46 AF to San Gorgonio Pass WA.

**Table 32. Water Quality At Selected SWP Locations**

**May 2005**

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO <sub>3</sub>	40	163	44	43	73	67	71	71	72
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.001	0.001	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.08	0.07	0.08	0.20	0.17	0.19	0.19	0.16
Calcium	mg/l	8	26	13	13	20	18	20	20	22
Carbon - Dissolved Organic	mg/l as C	NR	6	3	<0.5	4	3	3	4	5
Carbon - Total Organic	mg/l as C	NR	10	4	3	5	5	5	5	6
Chloride	mg/l	1	38	27	29	65	59	65	65	56
Chromium	mg/l	<0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002
Copper	mg/l	<0.001	0.002	0.004	0.001	0.005	0.002	0.002	0.002	0.004
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Hardness	mg/l as CaCO <sub>3</sub>	36	168	61	61	99	90	99	99	104
Iron	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	25	7	7	12	11	12	12	12
Manganese	mg/l	<0.005	0.559	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.11	0.32	NR	0.62	0.51	0.69	0.75	0.82
Phosphorus-Ortho	mg/l as P	<0.01	0.09	0.07	NR	0.08	0.07	<0.01	0.09	0.09
Phosphorus-Total	mg/l	0.02	0.38	0.12	NR	0.11	0.10	0.11	0.12	0.11
Selenium	mg/l	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	<0.001	0.001
Sodium	mg/l	4	48	24	25	46	43	46	48	45
Specific Conductance	μS/cm	88	533	254	266	452	422	451	455	438
Sulfate	mg/l	2	49	31	34	42	42	44	44	47
Total Dissolved Solids	mg/l	60	304	148	142	253	251	245	258	242
Turbidity	NTU	6	130	14	9	3	5	5	7	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0

mg/l milligrams per liter

μg/l micrograms per liter

μS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units



**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**May 2005**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 16, 2005	Simazine	0.24
California Aqueduct At Banks Pumping Plant	March 16, 2005	Simazine Chlorpyrifos Diuron	0.11 0.03 0.68
O'Niell Forebay Outlet Check 13	March 16, 2005	Chlorpyrifos Simazine Diuron	0.02 0.13 0.88
Delta Mendota Canal At McCabe Road	March 16, 2005	Diuron Simazine	0.48 0.05
California Aqueduct Near Kettleman City (Check 21)	March 15, 2005	Simazine Diuron	0.12 0.78
California Aqueduct Near Highway 119 (Check 29)	March 15, 2005	Simazine Diuron	0.15 0.82
California Aqueduct At Tehachapi Afterbay (Check 41)	March 16, 2005	Simazine Diuron	0.20 1.40
Devil Canyon Head Works	March 16, 2005	Diuron Simazine	1.70 0.20

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

**May 2005**

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	814,590	0	9,850	18,980	317,190	317,190	315,450	850
2	3,091,570	0	9,800	19,950	313,550	313,550	269,820	910
3	4,294,910	0	12,000	21,360	337,700	337,700	246,350	860
4	7,103,600	0	10,610	20,750	16,000	16,000	286,430	860
5	10,390,970	0	21,730	42,550	2,351,620	2,351,620	685,340	2,280
6	2,508,890	60	10,430	21,320	866,210	866,210	305,230	860
7	2,598,530	180	9,960	20,590	870,250	870,250	316,760	860
8	897,740	5,630	9,950	18,650	796,690	796,690	296,890	850
9	5,955,550	2,420	9,900	21,130	817,370	817,370	297,790	850
10	4,841,840	3,740	10,570	20,290	834,340	834,340	299,140	840
11	3,511,800	340	9,790	19,870	808,300	808,300	321,500	850
12	6,623,730	750	11,260	21,260	1,408,950	1,408,950	272,990	860
13	3,183,180	0	10,730	20,670	708,260	708,260	276,300	880
14	1,608,180	0	10,540	19,440	810,820	810,820	274,580	890
15	471,200	5,480	10,330	20,740	982,440	982,440	262,770	890
16	3,464,010	9,800	11,760	21,550	815,700	815,700	219,840	890
17	5,319,090	4,200	11,640	22,020	793,200	793,200	209,860	870
18	4,659,310	9,630	13,070	24,550	789,120	789,120	216,030	870
19	8,812,290	0	11,610	21,680	743,510	743,510	225,350	870
20	8,871,030	0	12,910	25,310	741,350	741,350	215,400	870
21	5,760,720	0	11,460	20,730	742,450	742,450	245,860	870
22	5,021,230	7,900	14,870	24,630	730,380	730,380	233,130	880
23	8,324,820	0	15,420	25,850	735,820	735,820	261,260	900
24	7,366,450	0	16,530	28,240	735,970	735,970	278,420	880
25	7,637,050	0	15,000	25,590	737,110	737,110	353,670	870
26	8,315,040	0	15,660	27,050	918,810	918,810	387,570	810
27	8,209,140	0	15,560	27,200	3,057,830	3,057,830	370,170	800
28	4,830,740	0	15,390	27,100	2,933,430	2,933,430	352,340	800
29	846,170	0	16,170	26,850	2,931,150	2,931,150	352,930	810
30	4,296,170	0	14,050	24,810	2,894,170	2,894,170	334,280	820
31	8,175,490	0	15,670	26,740	2,901,000	2,901,000	333,550	820
Total	157,805,030	50,130	394,220	727,450	35,440,690	35,440,690	9,317,000	28,020

**Table 36. San Luis Field Division Energy Data**

(in kWh)

**May 2005**

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,152,970	816,970	2,134,320	2,134,320	6,860	6,860
2	1,092,050	748,050	2,242,280	1,666,280	6,780	6,780
3	1,249,050	905,050	1,403,550	668,550	6,790	6,790
4	1,193,580	849,580	0	0	19,830	19,830
5	2,649,450	2,305,450	1,341,980	1,341,980	15,140	15,140
6	922,270	578,270	2,068,360	2,068,360	6,580	6,580
7	779,820	435,820	0	0	96,460	96,460
8	953,570	617,570	0	0	18,180	18,180
9	820,010	476,010	743,090	743,090	41,610	41,610
10	900,700	556,700	848,000	113,000	7,460	7,460
11	906,280	562,280	744,890	744,890	34,010	34,010
12	1,320,140	976,140	958,780	174,780	104,510	104,510
13	969,690	625,690	1,500,060	716,060	6,690	6,690
14	1,156,120	812,120	736,140	736,140	6,610	6,610
15	1,272,670	936,670	1,298,800	1,298,800	9,040	9,040
16	1,173,520	829,520	2,148,190	1,364,190	6,410	6,410
17	1,282,820	938,820	1,630,570	944,570	7,340	7,340
18	1,404,130	1,060,130	1,975,200	1,191,200	6,520	6,520
19	1,531,730	1,187,730	2,261,580	757,580	6,740	6,740
20	1,780,660	1,436,660	3,607,260	2,855,260	4,800	4,800
21	1,666,660	1,322,660	2,637,500	1,885,500	6,570	6,570
22	1,619,180	1,283,180	2,528,640	2,528,640	10,840	10,840
23	1,423,220	1,079,220	2,675,610	1,923,610	6,400	6,400
24	1,551,160	1,207,160	1,345,740	593,740	6,580	6,580
25	2,086,160	1,742,160	2,570,520	1,818,520	6,610	6,610
26	2,320,500	1,976,500	3,800,080	3,048,080	4,750	4,750
27	2,301,320	1,805,320	1,934,480	1,230,480	1,730	1,730
28	2,166,710	1,670,710	3,250,810	1,842,810	619,930	619,930
29	2,030,040	1,526,040	203,190	203,190	14,980	14,980
30	1,956,050	1,452,050	1,326,520	-81,480	6,560	6,560
31	1,849,690	1,353,690	2,260,360	1,556,360	6,520	6,520
Total	45,481,920	34,073,920	52,176,500	36,068,500	1,109,830	1,109,830

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Pumping Plant Energy Load Data**

(in kWh)

**May 2005**

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	20,960	55,850	56,940	52,750	56,960	1,217,730	1,405,240	3,156,570	11,670,340
2	16,740	41,610	35,190	33,310	36,090	1,002,680	1,069,030	2,311,750	8,331,280
3	23,230	59,680	62,030	59,150	62,830	1,113,510	1,185,010	2,614,930	9,803,350
4	30,790	80,210	60,550	56,990	60,770	971,940	973,590	2,075,170	7,514,860
5	57,890	159,590	125,600	120,240	127,050	1,886,810	1,864,610	4,095,500	14,713,650
6	25,570	68,390	55,590	52,850	55,670	883,050	958,270	2,121,880	7,641,540
7	33,040	85,500	44,140	41,690	44,820	808,900	947,730	2,106,100	7,882,570
8	25,850	67,810	52,430	48,830	52,600	967,640	1,098,390	2,456,880	9,113,070
9	20,180	50,290	44,760	41,660	45,510	697,330	759,630	1,684,010	6,030,800
10	23,920	60,840	51,040	48,360	51,450	729,960	792,150	1,737,740	6,452,510
11	23,230	60,570	50,080	48,760	51,870	803,670	846,420	1,833,400	6,452,220
12	14,900	39,570	47,180	44,030	46,790	819,140	821,520	1,748,150	6,414,150
13	18,470	49,060	62,000	59,030	62,440	814,170	859,510	1,859,410	6,697,940
14	29,830	76,030	57,650	54,930	58,980	853,690	902,910	1,996,100	7,075,160
15	23,720	60,140	55,030	50,720	55,370	988,490	1,073,490	2,373,610	8,813,120
16	19,590	50,380	48,580	46,320	48,690	806,330	851,340	1,824,670	6,821,200
17	22,640	57,730	59,500	56,460	60,970	1,018,610	1,021,590	2,199,010	7,828,620
18	14,500	37,950	47,480	44,940	47,420	951,920	1,038,160	2,229,460	8,318,030
19	39,410	101,260	95,440	92,830	94,780	1,189,980	1,208,720	2,639,950	9,583,520
20	29,030	76,420	32,150	29,120	32,140	1,208,480	1,237,230	2,653,510	9,650,310
21	28,090	74,570	89,930	89,260	88,740	1,140,510	1,211,600	2,633,980	9,526,870
22	18,460	49,570	77,670	73,790	78,360	1,549,260	1,639,320	3,619,230	13,505,640
23	23,130	58,300	54,430	50,630	54,560	1,194,410	1,276,590	2,752,850	10,138,230
24	41,380	109,000	84,960	81,290	84,780	1,170,010	1,253,020	2,668,080	9,648,070
25	40,120	104,540	62,930	59,710	63,180	1,273,750	1,291,640	2,773,540	10,074,160
26	42,130	109,160	62,350	60,270	62,240	1,292,350	1,317,030	2,802,150	10,161,290
27	38,980	101,080	72,060	69,130	71,790	1,234,160	1,313,060	2,830,880	10,147,440
28	53,580	141,540	70,210	66,760	69,970	1,097,950	1,107,440	2,386,530	8,815,260
29	47,660	126,290	83,450	78,550	83,480	835,630	862,430	1,863,020	6,823,950
30	31,810	81,330	59,220	55,380	60,230	1,219,960	1,270,300	2,746,710	10,167,070
31	28,690	73,130	47,560	44,790	48,170	1,232,850	1,284,030	2,761,190	10,132,560
Total	907,520	2,367,390	1,908,130	1,812,530	1,918,700	32,974,870	34,741,000	75,555,960	275,948,780

**Table 38. Southern Field Division Energy Data**

(in kWh)

**May 2005**

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation 1/	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green Spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	338,861	619,290	960,000	424,278	2,165,254	2,692,118	239,013	481	466	441
2	285,059	955,100	1,440,000	295,945	1,534,277	3,065,526	185,641	471	476	863
3	522,822	928,640	1,440,000	259,840	1,565,115	2,672,607	169,956	491	486	929
4	269,713	910,820	1,440,000	269,185	1,343,829	2,766,456	152,838	511	486	853
5	457,228	1,845,270	1,440,000	528,886	3,121,476	5,712,302	343,631	17,207	23,018	919
6	233,426	899,690	1,440,000	269,413	1,665,065	2,767,652	188,311	521	476	460
7	220,515	916,260	1,440,000	285,364	1,662,193	2,800,653	155,429	521	466	413
8	236,099	918,410	1,440,000	347,112	1,954,895	2,818,898	232,743	530	466	441
9	177,287	681,450	600,000	239,656	1,380,199	2,931,626	156,082	511	476	938
10	223,891	704,440	600,000	212,015	1,382,901	2,681,744	151,602	530	466	872
11	167,119	371,050	600,000	236,659	850,668	2,652,779	80,864	619	466	413
12	164,465	333,200	600,000	236,541	1,370,259	2,536,214	130,696	15,812	21,014	760
13	139,426	193,410	600,000	272,725	1,629,900	2,810,384	192,267	570	595	488
14	103,911	131,420	600,000	324,565	1,646,590	2,839,854	220,362	570	585	488
15	6,901	164,090	600,000	384,573	2,088,475	2,864,606	232,783	589	595	506
16	360,970	575,860	1,320,000	64,933	1,145,992	3,021,578	149,486	481	575	778
17	339,990	774,800	1,320,000	241,614	1,348,614	3,031,408	145,520	511	615	703
18	328,287	877,470	1,320,000	281,814	1,475,932	3,253,115	176,117	550	595	591
19	323,089	836,090	1,320,000	186,125	1,718,963	3,293,503	181,398	16,804	22,006	760
20	339,238	603,250	1,320,000	353,708	1,735,314	3,491,614	196,390	658	615	582
21	339,634	865,310	1,320,000	341,307	1,784,955	3,099,070	200,672	678	615	516
22	457,238	839,350	1,320,000	424,753	2,503,619	3,024,357	297,943	687	635	535
23	373,267	1,080,070	1,200,000	143,641	1,930,668	3,479,925	244,937	12,070	15,716	853
24	451,752	1,058,900	1,200,000	305,716	1,576,142	3,342,939	182,486	17,501	22,601	1,050
25	459,911	1,047,990	1,200,000	323,843	1,712,981	3,244,492	198,398	648	625	1,032
26	464,960	1,045,130	1,200,000	329,509	1,698,116	3,105,281	187,441	18,808	24,477	703
27	455,535	1,045,350	1,200,000	327,443	1,585,902	3,370,906	203,521	13,455	17,581	666
28	91,733	820	1,200,000	397,538	1,959,073	3,084,682	227,759	599	595	478
29	6,792	0	1,140,000	364,231	1,859,791	3,285,028	209,771	550	585	488
30	454,327	1,141,950	1,200,000	336,699	1,409,651	3,101,800	162,569	550	575	488
31	449,446	1,045,610	1,200,000	324,347	1,759,821	3,391,901	199,733	14,044	18,663	966
Total	9,242,891	23,410,490	35,220,000	9,333,979	52,566,630	96,235,018	5,996,361	138,529	177,617	20,972

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations